

(11) Publication number:

03187215 A

## PATENT ABSTRACTS OF JAPAN

Generated Document.

(21) Application number: 01326740

(51) Intl. Cl.: H01L 21/205

(22) Application date: 15.12.89

(30) Priority:

(43) Date of application publication:

15.08.91

(84) Designated contracting states:

(71) Applicant: SHARP CORP

(72) Inventor: **UEDA TORU** 

(74) Representative:

## (54) MANUFACTURE OF SILICON THIN FILM

## (57) Abstract:

film thickness of 300& angst; or less by supplying pure disilane thereto, and by CVD device, by heating an interior of the device to 400 to 550°C, by arranging a substrate inside a vacuum growth speed of 60Å/minute or PURPOSE: To enable formation of a continuous silicon thin film having a forming silicon by vapor growth at a less on the substrate. 5/10/01

03187215 A

certain other silane such as monosilane arranged inside a vacuum CVD device. form silicon on the substrate uniformly silicon thin film having film thickness 400 to 550°C and silicon is formed by island-like interruption can be formed substrate by supplying pure disilane thereto to form a silicon thin film. As An interior of the device is heated to or trisilane are suitable. The disilane of 300& angst; or less and without an can be supplied by diluting with gas device at a specified temperature to such as nitrogen, hydrogen, helium, decomposed inside a vacuum CVD for the disilane, ones which do not vapor growth at a growth speed of CONSTITUTION: A substrate is by vapor growth and continuous 60Å/minute or less on the and argon. Thereby, disilane is

COPYRIGHT: (C)1991, JPO&Japio